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Amazon AWS Certified Developer - Associate Sample Questions (Q273-Q278):

NEW QUESTION # 273

A developer is building a three-tier web application that should be able to handle a minimum of 5000 requests per minute. Requirements state that the web tier should be completely stateless while the application maintains session state for the users. How can session data be externalized, keeping latency at the LOWEST possible value?

- A. Create an Amazon DynamoDB table, then implement session handling at the application level to leverage the table for session data storage.
- B. Implement a shared file system solution across the underlying Amazon EC2 instances, then implement session handling at the application level to leverage the shared file system for session data storage.
- C. Create an Amazon RDS instance, then implement session handling at the application level to leverage a database inside the RDS database instance for session data storage.
- **D. Create an Amazon ElastiCache (Memcached) cluster, then implement session handling at the application level to leverage the cluster for session data storage.**

Answer: D

Explanation:

Comprehensive Detailed Explanation with all AWS Reference

Why Option C is Correct:

Amazon ElastiCache (Memcached) provides low-latency, in-memory caching suitable for session storage. It ensures stateless web tier operations and supports the high throughput of 5000 requests per minute.

Why Other Options are Incorrect:

Option A: RDS has higher latency compared to in-memory caching solutions like ElastiCache.

Option B: Shared file systems introduce additional complexity and are not ideal for low-latency session data storage.

Option D: DynamoDB has low latency but is less performant than ElastiCache for in-memory session management.

AWS Documentation Reference:

Amazon ElastiCache for Session State Management

NEW QUESTION # 274

A developer has been asked to create an AWS Lambda function that is invoked any time updates are made to items in an Amazon DynamoDB table. The function has been created and appropriate permissions have been added to the Lambda execution role. Amazon DynamoDB streams have been enabled for the table, but the function is still not being invoked. Which option would enable DynamoDB table updates to invoke the Lambda function?

- A. Increase the maximum runtime (timeout) setting of the Lambda function.
- **B. Configure event source mapping for the Lambda function.**
- C. Map an Amazon Simple Notification Service (Amazon SNS) topic to the DynamoDB streams.
- D. Change the StreamViewType parameter value to NEW_AND_OLD_IMAGES for the DynamoDB table.

Answer: B

Explanation:

This solution allows the Lambda function to be invoked by the DynamoDB stream whenever updates are made to items in the DynamoDB table. Event source mapping is a feature of Lambda that enables a function to be triggered by an event source, such as a DynamoDB stream, an Amazon Kinesis stream, or an Amazon Simple Queue Service (SQS) queue. The developer can configure event source mapping for the Lambda function using the AWS Management Console, the AWS CLI, or the AWS SDKs. Changing the StreamViewType parameter value to NEW_AND_OLD_IMAGES for the DynamoDB table will not affect the invocation of the Lambda function, but only change the information that is written to the stream record.

Mapping an Amazon Simple Notification Service (Amazon SNS) topic to the DynamoDB stream will not invoke the Lambda function directly, but require an additional subscription from the Lambda function to the SNS topic. Increasing the maximum runtime (timeout) setting of the Lambda function will not affect the invocation of the Lambda function, but only change how long the function can run before it is terminated.

NEW QUESTION # 275

A developer is building an application that gives users the ability to view bank account from multiple sources in a single dashboard. The developer has automated the process to retrieve API credentials for these sources. The process invokes an AWS Lambda function that is associated with an AWS CloudFormation custom resource. The developer wants a solution that will store the API credentials with minimal operational overhead. When solution will meet these requirements?

- A. Add an AWS Secrets Manager GenerateSecretString resource to the CloudFormation template. Set the value to reference new credentials to the CloudFormation resource.
- B. Use the AWS SDK ssm PutParameter operation in the Lambda function from the existing custom resource to store the credentials as a parameter. Set the parameter value to reference the new credentials. Set the parameter type to SecureString.
- C. Add an AWS Systems Manager Parameter Store resource to the CloudFormation template. Set the CloudFormation resource value to reference the new credentials. Set the resource NoEcho attribute to true.
- D. Use the AWS SDK ssm PutParameter operation in the Lambda function from the existing custom resources to store the credentials as a parameter. Set the parameter value to reference the new credentials. Set the parameter NoEcho attribute to true.

Answer: B

Explanation:

The solution that will meet the requirements is to use the AWS SDK ssm PutParameter operation in the Lambda function from the existing custom resource to store the credentials as a parameter. Set the parameter value to reference the new credentials. Set the parameter type to SecureString. This way, the developer can store the API credentials with minimal operational overhead, as AWS Systems Manager Parameter Store provides secure and scalable storage for configuration data. The SecureString parameter type encrypts the parameter value with AWS Key Management Service (AWS KMS). The other options either involve adding additional resources to the CloudFormation template, which increases complexity and cost, or do not encrypt the parameter value, which reduces security.

NEW QUESTION # 276

A developer has observed an increase in bugs in the AWS Lambda functions that a development team has deployed in its Node.js application. To minimize these bugs, the developer wants to implement automated testing of Lambda functions in an environment that closely simulates the Lambda environment.

The developer needs to give other developers the ability to run the tests locally. The developer also needs to integrate the tests into the team's continuous integration and continuous delivery (CI/CD) pipeline before the AWS Cloud Development Kit (AWS CDK) deployment.

Which solution will meet these requirements?

- A. Install a unit testing framework that reproduces the Lambda execution environment. Create sample events based on the Lambda Documentation. Invoke the handler function by using a unit testing framework. Check the response. Document how to run the unit testing framework for the other developers on the team. Update the CI/CD pipeline to run the unit testing framework.
- B. Install the AWS Serverless Application Model (AWS SAM) CLI tool. Use the sam local generate-event command to generate sample events for automated tests. Create automated test scripts that use the sam local invoke command to invoke the Lambda functions. Check the response. Document the test scripts for the other developers on the team. Update the CI/CD pipeline to run the test scripts.
- C. Create sample events based on the Lambda documentation. Create a Docker container from the Node.js base image to invoke the Lambda functions. Check the response. Document how to run the Docker container for the other developers on the team. Update the CI/CD pipeline to run the Docker container.
- D. Create sample events based on the Lambda documentation. Create automated test scripts that use the cdk local invoke command to invoke the Lambda functions. Check the response. Document the test scripts for the other developers on the team. Update the CI/CD pipeline to run the test scripts.

Answer: B

Explanation:

This solution will meet the requirements by using the AWS SAM CLI tool, which is a command line tool that lets developers locally build, test, debug, and deploy serverless applications defined by AWS SAM templates. The developer can use sam local generate-event command to generate sample events for different event sources such as API Gateway or S3. The developer can create automated test scripts that use sam local invoke command to invoke Lambda functions locally in an environment that closely simulates the Lambda environment. The developer can check the response from Lambda functions and document how to run the test scripts for other developers on the team. The developer can also update the CI/CD pipeline to run these test scripts before deploying with AWS CDK. Option A is not optimal because it will use cdk local invoke command, which does not exist in the AWS CDK CLI tool. Option C is not optimal because it will use a unit testing framework that reproduces the Lambda execution environment, which may not be accurate or consistent with the Lambda environment. Option D is not optimal because it will create a Docker container from the Node.js base image to invoke Lambda functions, which may introduce additional overhead and complexity for creating and running Docker containers.

NEW QUESTION # 277

A company has an ecommerce application. The application's API sends order data to an Amazon Simple Queue Service (Amazon SQS) queue. A developer needs to modify the application to enrich the order data before the application sends the order data to a fulfillment system.

Which solution will meet this requirement with the LEAST development effort?

- A. Create an AWS Lambda function to poll the SQS queue, enrich the message data, and send the enriched data to the fulfillment system. Create an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the Lambda function to the SNS topic.
- **B. Create an Amazon EventBridge pipe that uses event enrichment. Configure the SQS queue as a source for the pipe. Set the fulfillment system as the target of the pipe.**
- C. Create an Amazon EMR cluster to read messages from the SQS queue. Configure an EMR job to enrich the order data. Create and configure an Amazon S3 bucket as the output location. Adjust the order fulfillment system to retrieve the enriched files from the S3 bucket.
- D. Create an AWS Step Functions state machine. Configure an Amazon EventBridge rule to run the state machine when an order is published to the SQS queue. Map the orders to an AWS Lambda function. Program the Lambda function to perform the data enrichment and to invoke the state machine. Configure the last step of the state machine to send the enriched data to the fulfillment system.

Answer: B

NEW QUESTION # 278

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